

***LineUp With Math™* Alignment**
Idaho Achievement Standards
Mathematics 2-1-06

Standard 1: Number and Operation

Goal 1.1: Understand and use numbers.

Objective(s)	<i>LineUp With Math™</i> Activities
8.M.1.1.2 Use rational numbers, including percents and ratios, and π (pi) to solve problems. (337.01.b)	--Use percent relationships to resolve distance, rate, time conflicts in air traffic control.
8.M.1.1.6 Recognize pertinent information for problem-solving. (338.01.b)	--Apply mathematics to solving distance, rate, and time problems for aircraft conflict scenarios.

Goal 1.2: Perform computations accurately

Objective(s)	<i>LineUp With Math™</i> Activities
8.M.1.2.6 Use a variety of strategies including common mathematical formulas to compute problems drawn from real-life situations. (338.01.a)	--Explore and apply a variety of strategies to optimize the solution of air traffic control conflicts.

Goal 1.3: Estimate and judge reasonableness of results.

Objective(s)	<i>LineUp With Math™</i> Activities
8.M.1.3.1 Estimate to predict computation results. (337.03 a)	--Predict and resolve aircraft conflicts and explain results of mathematical calculations and simulations.

Standard 2: Concepts and Principles of Measurement

Goal 2.1: Understand and use customary and metric measurements.

Objective(s)	<i>LineUp With Math™</i> Activities
8.M.2.1.1 Select and use appropriate units and tools to make formal measurements in both systems. (339.01.a)	--Use an interactive simulator plus calculation worksheets to model and resolve air traffic control conflicts.
8.M.2.1.2 Apply estimation of measurement to real-world and content problems using standard measuring devices. (339.01.b)	--Predict and resolve aircraft conflicts and explain results of mathematical calculations and simulations.

8.M.2.1.5 Convert units of measurement within each system in problem solving situations. (339.01.c)	--Apply mathematics to solving distance, rate, and time problems for aircraft conflict scenarios.
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Goal 2.2: Apply the concepts of rates, ratios, and proportions.

Objective(s)	<i>LineUp With Math™</i> Activities
8.M.2.2.1 Use rates, proportions, ratios, and scales in problem solving situations. (339.03.a)	--Use an interactive simulator plus calculation worksheets to apply proportional reasoning to identify and resolve distance, rate, time conflicts in air traffic control.
8.M.2.2.2 Determine unit rates in real-world situations.	--Identify and resolve distance, rate, time conflicts in air traffic control problems by varying plane speeds or changing plane routes.

Standard 3: Concepts and Language of Algebra and Functions

Goal 3.4: Understand the concept of functions.

Objective(s)	<i>LineUp With Math™</i> Activities
8.M.3.4.2 Use relationships to explain how a change in one quantity may result in a change in another, and identify the relationship as a positive, negative, or neither. (343.01.b)	--Use an interactive simulator plus calculation worksheets to model and resolve air traffic control conflicts. --Identify and resolve distance, rate, time conflicts in air traffic control problems by varying plane speeds or changing plane routes.